

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S17	26478	spider OR rotary OR (pipe handling) OR (handling pipe) OR slip) AND (door OR gate OR latch) AND hydraulic\$4	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/20 15:44
S18	10265	(spider OR rotary OR (pipe handling) OR (handling pipe) OR slip) AND ((door OR gate OR latch) SAME hydraulic\$4)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/20 15:45
S19	4765	(spider OR rotary OR (pipe handling) OR (handling pipe) OR slip OR (pipe gripping)) AND ((door OR gate OR latch) WITH hydraulic\$4)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/20 16:31
S20	9	("20040256110" "20050098352" "20060000601" "3342520" "5294228" "5297833" "6920926").PN. OR ("7350586").URPN.	US-PGPUB; USPAT; USOOR	ADJ	ON	2010/05/20 16:37
S21	1160	((pipe handling) OR (handling pipe) OR (pipe gripping) OR elevator) AND ((door OR gate OR latch) WITH hydraulic\$4)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/20 16:44
S22	128	S21 AND ("166".clas. OR "175".clas. OR "294".clas.)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/20 16:45
S23	105	US-1829760-\$ DID. OR US-2178999-\$ DID. OR US-2775304-\$ DID. OR US-3540533-\$ DID. OR US-3543847-\$ DID. OR US-4114404-\$ DID. OR US-4444252-\$ DID. OR US-4448255-\$ DID. OR US-3849625-\$ DID. OR US-4643472-\$ DID. OR US-1987024-\$ DID. OR US-4811784-\$ DID. OR US-4971146-\$ DID. OR US-5082061-\$ DID. OR US-5125148-\$ DID. OR US-9920630-\$ DID. OR US-5330002-\$ DID. OR US-5484222-\$ DID. OR US-5553667-\$ DID. OR US-5749585-\$ DID. OR US-5967477-\$ DID. OR US-6302199-\$ DID. OR US-1173605-\$ DID. OR US-6305649-\$ DID. OR US-6354372-\$ DID. OR US-6443241-\$ DID. OR US-6536520-\$ DID. OR US-6550128-\$ DID. OR US-6557641-\$ DID. OR US-6609573-\$ DID. OR US-6622796-\$ DID. OR US-6622797-\$ DID. OR US-6637526-\$ DID. OR US-6688398-\$ DID. OR US-6691776-\$ DID. OR US-6705405-\$ DID. OR US-6719063-\$ DID. OR US-6742596-\$ DID. OR US-6752569-\$ DID. OR US-6857483-\$ DID. OR US-6913096-\$ DID. OR US-6920926-\$ DID. OR US-6938709-\$ DID. OR US-6966385-\$ DID. OR US-6976298-\$ DID. OR US-6991265-\$ DID. OR US-7137454-\$ DID. OR US-7140443-\$ DID. OR US-7191840-\$ DID. OR US-20010042625-\$ DID. OR US-20020000333-\$ DID. OR US-	US-PGPUB; USPAT; USOOR	ADJ	ON	2010/05/20 16:55

		20020070027-\$ DID. OR US-9850925-\$ DID. OR WO-07127737-\$ DID. OR WO-071124418-\$ DID. OR US-3849625-\$ DID. OR US-2002074132-\$ DID. OR US-20020162665-\$ DID. OR US-20020189817-\$ DID. OR US-20030000708-\$ DID. OR US-20030000742-\$ DID. OR US-20030019636-\$ DID. OR US-20030066654-\$ DID. OR US-20030098155-\$ DID. OR US-20030127222-\$ DID. OR US-20030155154-\$ DID. OR US-20030173073-\$ DID. OR US-20030183396-\$ DID. OR US-20030196791-\$ DID. OR US-20030221842-\$ DID. OR US-20030226660-\$ DID. OR US-20040011531-\$ DID. OR US-20040036572-\$ DID. OR US-20040069500-\$ DID. OR US-20040084191-\$ DID. OR US-20040094957-\$ DID. OR US-20040149451-\$ DID. OR US-20040173357-\$ DID. OR US-20040182611-\$ DID. OR US-20040216924-\$ DID. OR US-20040256110-\$ DID. OR US-20050000691-\$ DID. OR US-200500061548-\$ DID. OR US-20060005962-\$ DID. OR US-20060011353-\$ DID. OR US-20060102337-\$ DID. OR US-20060249292-\$ DID. OR US-20070074876-\$ DID. OR US-20070095524-\$ DID. OR ("1486471" "1917669" "2203118" "2211016" "3522966" "3897099" "4647099" "5340182").PN.				
S24	67	("1599144" "1814407" "2636769" "2684166" "2692059" "2695189" "2722450" "3363929" "4878705").PN. OR ("5340182").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/20 17:08
S25	26	("20060027375" "20060191690" "3063509" "3099323" "3308970" "4389760" "4421447" "4492134" "4625796" "4709766" "4765401" "4793422" "4800968" "5340182" "5909768" "6237684" "6309002" "6386283" "6443241" "6520709" "6557641" "6568479" "6637526").PN. OR ("7216717").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/21 10:01
S26	4116	(jaw OR slip OR wedge) WITH hydraulic\$4 WITH (engag\$3 OR disengag\$3 OR set\$3 OR unset\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/21 10:21
S27	2221	((jaw OR slip OR wedge) WITH hydraulic\$4 WITH (engag\$3 OR disengag\$3 OR set\$3 OR unset\$3)) AND (pipe OR string OR tube OR tubular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/21 10:21
S28	42	((jaw OR slip OR wedge) WITH hydraulic\$4 WITH (engag\$3 OR disengag\$3 OR set\$3 OR unset\$3) WITH (door OR latch OR gate)) AND (pipe OR string OR tube OR tubular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/21 10:22
S29	660	294/102.1,102.2.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/21 10:52

S30	45	S29 AND (hydraulic\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/21 10:52
S31	0	(09/726961).APP.	USPAT; USOCR	ADJ	ON	2010/05/21 10:59
S33	42	("1211999" "1535625" "1548337" "1754288" "1766920" "1211999" "1535625" "1656582" "1766920" "2009942" "20060185854" "20080136203" "2009942" "2105077" "3915244" "4035012" "4269554" "4275487" "4361940" "4441749" "4579379" "4604724" "4647099" "4576254" "4676312" "5027926" "5127790" "5340182" "5299848" "5791410" "5909768" "6568479" "6227587" "6742596" "6938697" "6976540" "6997265" "7032678").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 12:57
S34	90	("3266582" "3312294" "3464507" "3766991" "3776320").PN. OR ("3915244"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 13:01
S35	18	("1693478" "1836096" "1928283" "2274273" "2890513" "3675278" "4035012").PN. OR ("4275487").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 13:03
S36	24	("0711911" "3422506" "3507174" "3760469" "4269277" "4296658" "4478292").PN. OR ("4576254").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 13:11
S37	18	("1417490" "3272266" "3358341" "3371562" "3630391" "3847040" "4576254" "4649777" "5669653" "5931231").PN. OR ("6270136").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 13:18
S38	24	("0711911" "1487440" "1511061" "2048208" "2615682" "3329460" "3937515" "4126348" "4269554" "4304433").PN. OR ("4647099").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 13:20
S39	132	S34 OR S37 OR S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 13:23
S40	5	("2048208").URPN.	USPAT	ADJ	ON	2010/05/24 13:24
S41	9	("3358341").URPN.	USPAT	ADJ	ON	2010/05/24 13:30
S44	135	414/22.51-22.71.ccls. AND (hydraulic\$4) AND slip	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 14:20
S45	328	166/75.11,77.51,77.52,77.53,85.1.ccls. AND hydraulic\$4 AND slip	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 15:07
S47	162	S45 AND (door OR gate OR latch OR hinge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 15:08

S48	18	("20070163807" "2063361" "2298507" "2890513" "3188708" "4275488" "4579379" "4715456" "5848647" "6089338" "6640939" "6892835" "6994176" "7143849").PN. OR ("7681649").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 15:38
S49	532	166/378,379,380.ccls. AND (hydraulic\$4 AND slip)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 16:00
S50	263	S49 AND (door OR gate OR latch OR hinge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 16:00
S51	176	S50 NOT (S47 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 16:01
S52	10	(signal port) AND slip AND hydraulic\$4 AND (door OR gate Or latch OR hinge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 16:04
S53	497	175/423.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 16:32
S54	82	S53 AND hydraulic\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/24 16:32
S55	11	("3460638" "3554298" "3695363" "3722603" "3750769" "4128135" "4585079" "4813493" "4821814").PN. OR ("5265683").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 16:57
S56	16	("1127066" "2841961" "3540642" "3579753" "3602413" "4715456" "4865359" "4887673").PN. OR ("6450385").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/24 17:08
S57	13	(US-4976482-\$ or US-4275487-\$ or US-7032678-\$ or US-6227587-\$ or US-4355443-\$ or US-3675278-\$).did. or (US-1436246-\$ or US-1598709-\$ or US-1795578-\$ or US-2109493-\$ or US-1448100-\$ or US-3188029-\$ or US-3197835-\$).did.	USPAT; USOCR	ADJ	ON	2010/05/26 10:18
S58	31	(US-20060027375-\$ or US-20020063435-\$).did. or (US-6626238-\$ or US-7216717-\$ or US-7350586-\$ or US-4647099-\$ or US-5340182-\$ or US-6966385-\$ or US-4976482-\$ or US-6227587-\$ or US-7032678-\$ or US-3776320-\$ or US-RE29995-\$ or US-3915244-\$ or US-4013178-\$ or US-4511168-\$ or US-1656582-\$ or US-4576254-\$ or US-6270136-\$ or US-7156170-\$ or US-7681649-\$ or US-5265683-\$ or US-6450385-\$).did. or (US-1436246-\$ or US-1598709-\$ or US-1795578-\$ or US-2109493-\$ or US-3194313-\$ or US-3149391-\$ or US-2048208-\$ or US-3358341-\$).did.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/26 10:18

S59	24	S58 NOT S57	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/05/26 10:18
S65	334	166/382.ccls. AND (hydraulic\$4) AND slip	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/06/01 16:04

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